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Rapid, cloud-based mobile energy audit & solar assessment applications



August 14, 2013 Oliver Davis, CEO and co-founder concept3D and simuwatt

Industry – Government Collaboration



Go to Market Fall-Winter 2013/14

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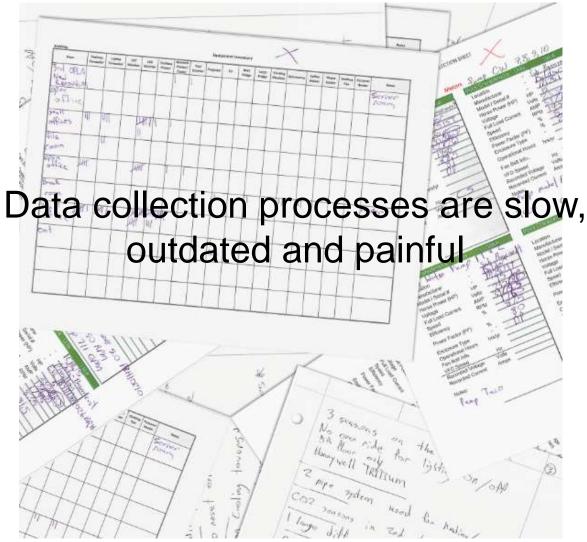
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- EE market is growing from ~\$5B today to \$11-\$15B by 2020 (Peter Larsen, LBNL Study)
- The ESPC market is ~1/3 of overall federal programs savings (*Dr. Tim Unruh, DOE*)
- The expectation is to continue improving efficiency, 13% efficiency remains for EISA....low hanging fruit is gone
- Tools have to keep up with demand and identify big opportunities for Levels 2 and 3 retrofits/ESPC (\$71-\$133B total market opportunity – LBNL)

- Problem:
 - High quality energy audits are necessary for ESPC's, but \$
 - Lack of data standards prevent aggregation and reuse
 - ESCOs require investment-grade data and analysis
 - Energy audits are mandated by EISA 2007 quality is cost-prohibitive
 - Many advanced tools are kept inhouse/proprietary

• Still need to walk through the building to get good

EPC's Need Good Data and Fast, But....



Actual materials from energy audit

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simuwatt Energy Auditor



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What

Software and Hardware Approach:

- Increase speed and quality
- •Store data electronically to leverage for other uses
- •Automatically create energy models for detailed ECM

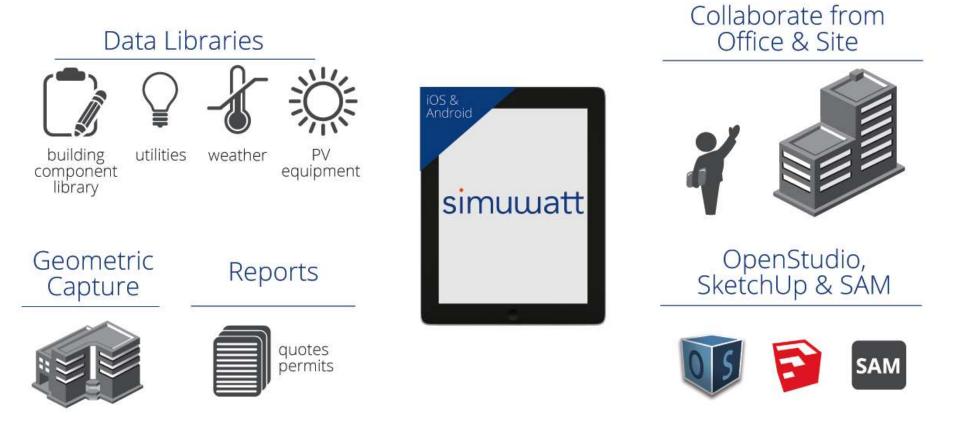
Goals

Lower the cost of Level III energy audits by

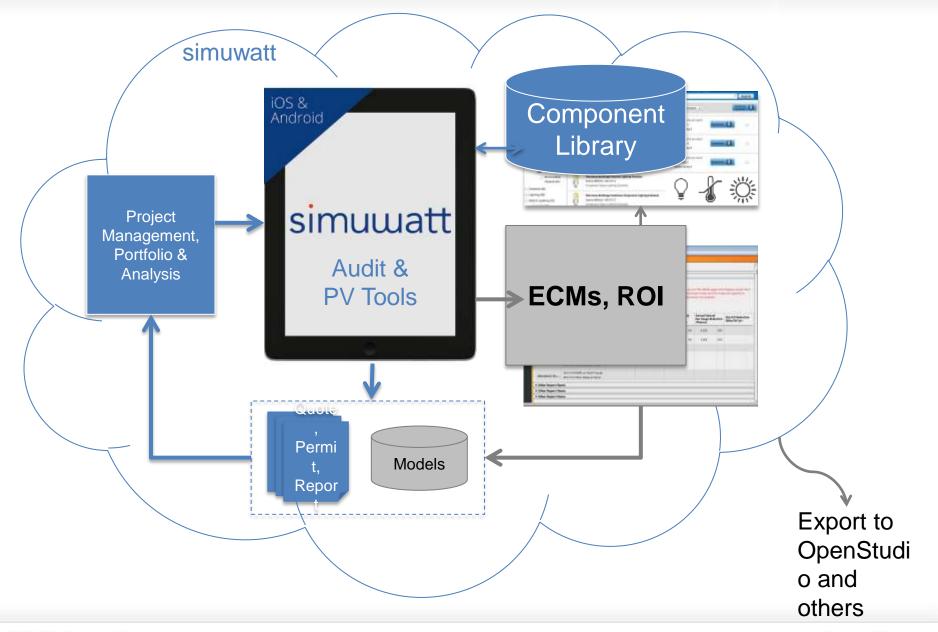
75%

Store data in a consistent, reusable, multi-purpose Approach

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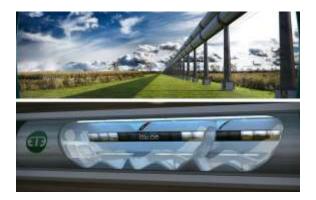


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Outcome

- Speed
 - New software and mobile hardware platforms ideal for field audits
- Consistent
 - Multiple data sources and tools allow for rapid, standard processes
- Market Impacting From Steam to Hyperloop
 - New applications and simulations required to meet market demand





- Needs
 - Collaboration with other applications for M&V, financing institutions, further software integration

Beta Testers Welcome!

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